

Customer :
Project Name :
Project No. :
Revision No. :

SPECIFICATION for INDUCTION MOTOR



0		For Bidding			
No.	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

AC INDUCTION MOTOR DATA SHEET

Model No.or RFQ No.		Item No.		Rev. No. []			
Project Name		Project No.		Quantity sets			
GENERAL SPECIFICATION			PERFORMANCE DATA				
Frame Size	112M		Rated Output	2.2 kW 3.0 HP			
Type	HKP-2.2/6		Number of Poles	6			
Enclosure(Protection)	Totally Enclosed / IP55		Rotor Type	Squirrel Cage			
Method of Cooling	IC411(FC)		Starting Method*	<input checked="" type="checkbox"/> D.O.L <input type="checkbox"/> Y-Δ			
Rated Frequency	60 Hz		Rated Voltage	220 V			
Number of Phases	3		Current	Full Load	9.5 A		
Insulation Class	<input checked="" type="checkbox"/> F <input type="checkbox"/> B <input type="checkbox"/> H		Locked-rotor**	730 %			
Temp. Rise at full load (by resistance method)			Efficiency				
at 1.0 S.F 80 deg. C							
Motor Location	<input checked="" type="checkbox"/> Indoor <input type="checkbox"/> Outdoor						
Altitude	Less than 1000 meter		100% Load 89.5 %				
Relative Humidity	Less than 80 %		Power Factor(p.u)				
Ambient Temp.	40 deg. C (Max.)						
Duty Type	Continuous (S1)		100% Load 0.680				
Service Factor	1.15		Speed at Full Load 1175 r.p.m				
Mounting	B3		Torque				
Bearing	Type	Anti-Friction					
	DE/N-DE	6206ZZC3 / 6206ZZC3	Full Load	1.8 kg·m 17.9			
	Lubricant	Grease	Locked-rotor**	180 % 3.3 kg·m			
External Thrust	Not applicable		Breakdown**	250 % 4.6 kg·m			
Coupling Method	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> V-Belt		Moment of Inertia (J)				
Shaft Extension	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double		Load(Max.) 4.559 kg·m ²				
Terminal	Main	<input checked="" type="checkbox"/> Aluminum <input type="checkbox"/> Cast Iron	Motor 0.030 kg·m ²				
Box	Aux.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Sound Pressure Level (No-load & mean value at 1m from motor)				
	Location	Refer to Outline Drawing	55 dB(A)				
Application			Vibration 1.6 mm/sec (peak)				
Area classification	Non-Hazardous		Permissible number of consecutive starts				
Type of Ex-Protection	Not applicable		Cold 20 times				
Applicable Standard	KS, IEC, NEMA MG1 Part30(Vpeak)		Hot 15 times				
			Paint	Munsell No.	PHANTONE 279C		
ACCESSORIES			SUBMITTAL DRAWING				
			Outline Dimension Drawing \ Motor Weight(Approx.)				
			B3 LM-T0113B3PLV01 48 kg				
			REMARK				
			*. Premium efficiency(IE3) acc. to KS C 4202				
			*. SSEN Series				
			*. For use on PWM VFD 10:1VT,3:1CT@1.0S.F&F Temp.rise				
SPARE PARTS			<div style="border: 2px solid red; padding: 10px; text-align: center; font-size: 2em; color: red;">FOR BIDDING</div>				
			Date	DSND	CHKD	CHKD	APPD
			2021-04-26				

Type : HKP-2.2/6

Full Load Torque : 1.8 kg.m

Load moment of Inertia (J) : - kg.m²

Motor moment of Inertia (J) : 0.030 kg.m²

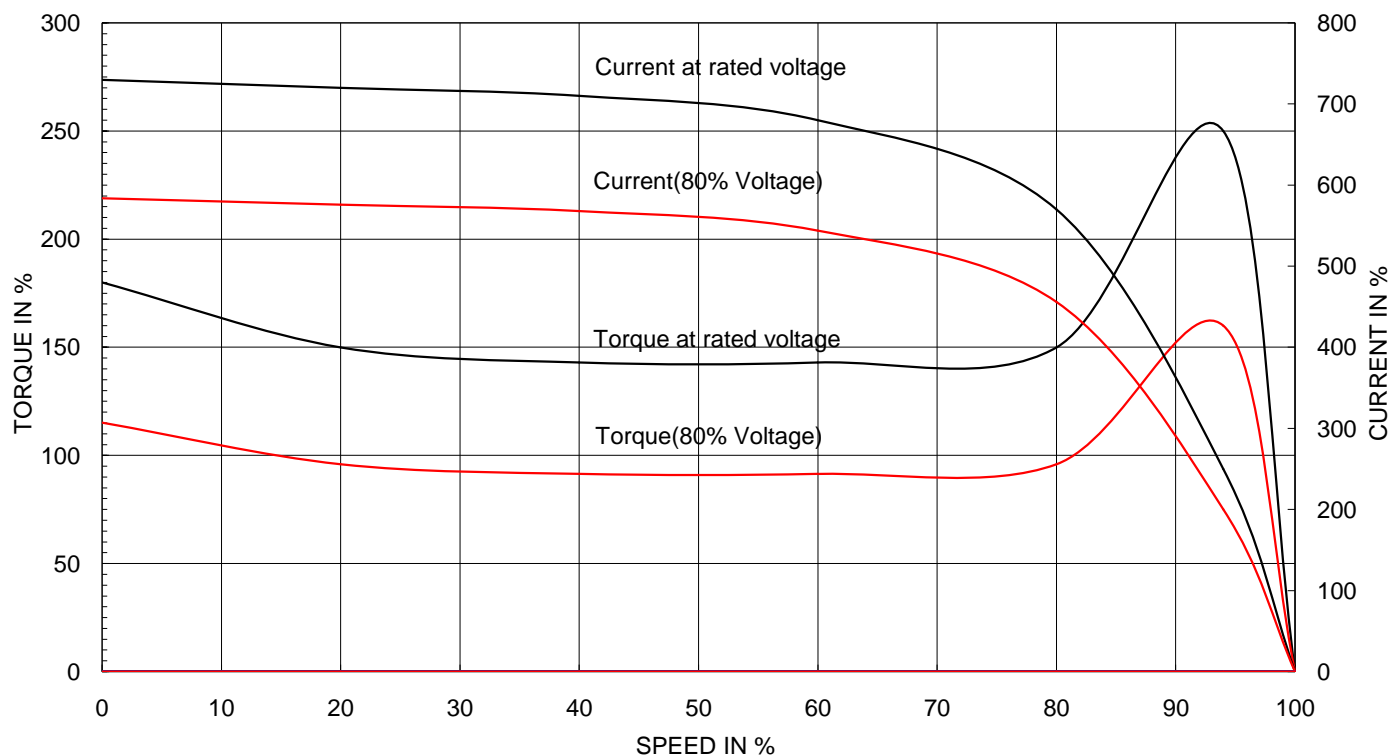
2.2 kW 6 P 60 Hz

Speed at Full Load : 1175 RPM

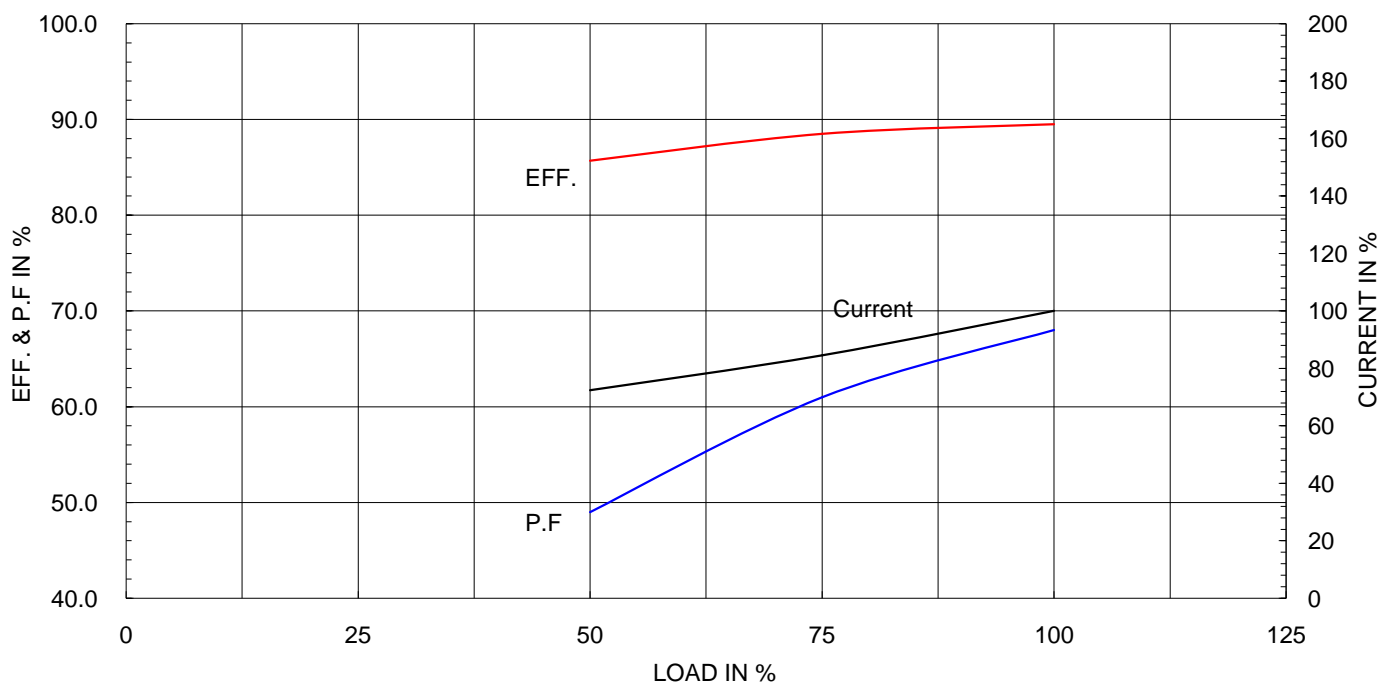
Rated Voltage 220

Full Load Current 9.5A

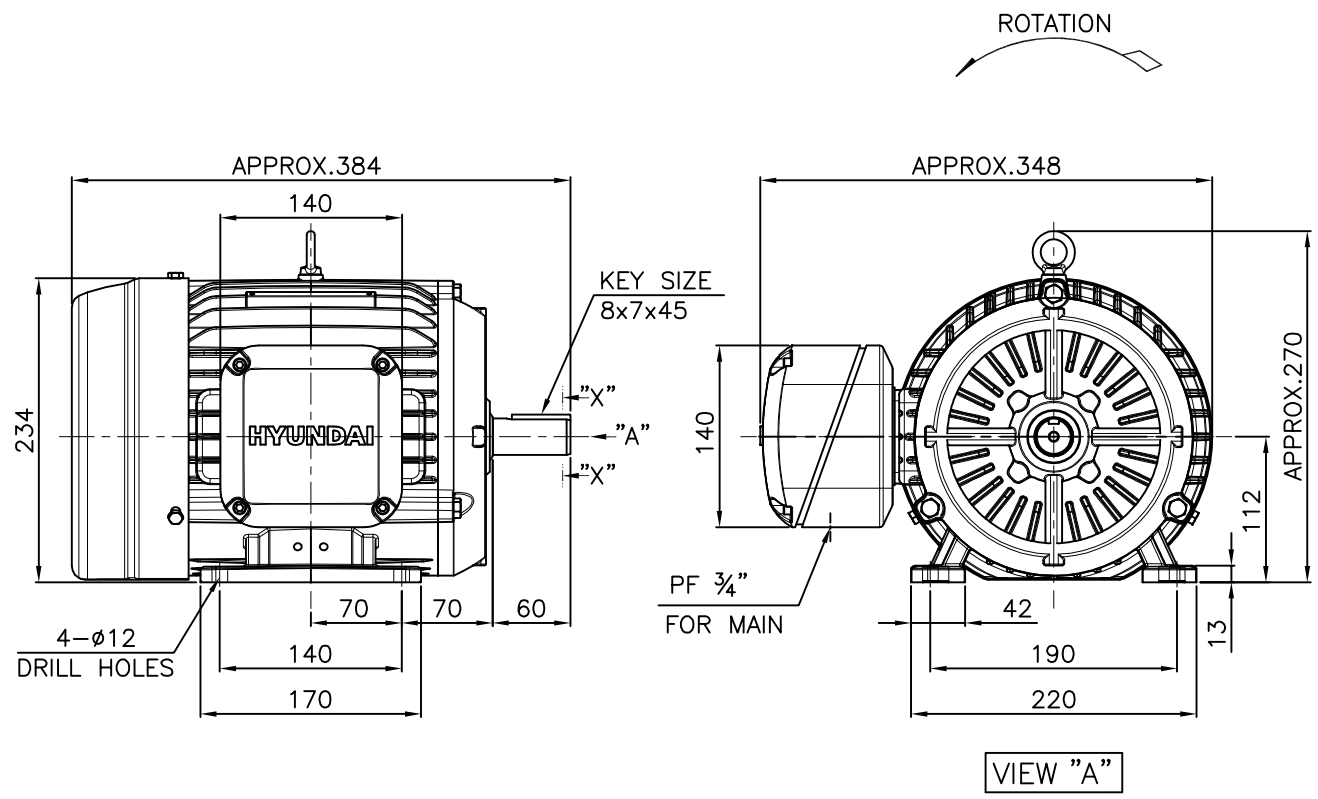
SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F & CURRENT CURVE



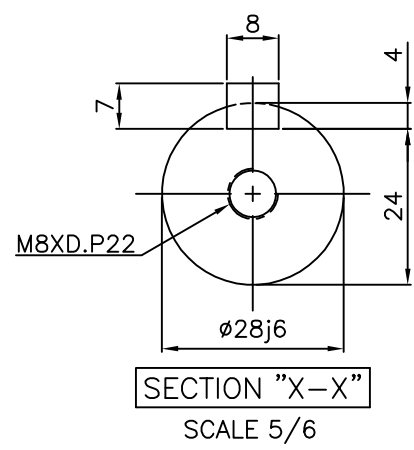
1			2		3		4			
▽	50S	REV	DATE	CONTENTS			REVD BY	CHKD BY	CHKD BY	APPD BY
▽▽	12.5S									
▽▽▽	3.2S									
▽▽▽▽	0.4S									



NOTE

1.TOLERANCE :

CENTER HEIGHT	112	$\begin{smallmatrix} 0 \\ -0.5 \end{smallmatrix}$
BASE HOLES	ø12	$\begin{smallmatrix} +0.43 \\ 0 \end{smallmatrix}$
SHAFT DIAMETER	ø28	$\begin{smallmatrix} +0.009 \\ -0.004 \end{smallmatrix}$
KEYWAY WIDTH	8	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEYWAY DEPTH	4	$\begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
KEY WIDTH	8	$\begin{smallmatrix} 0 \\ -0.036 \end{smallmatrix}$
KEY HEIGHT	7	$\begin{smallmatrix} 0 \\ -0.090 \end{smallmatrix}$

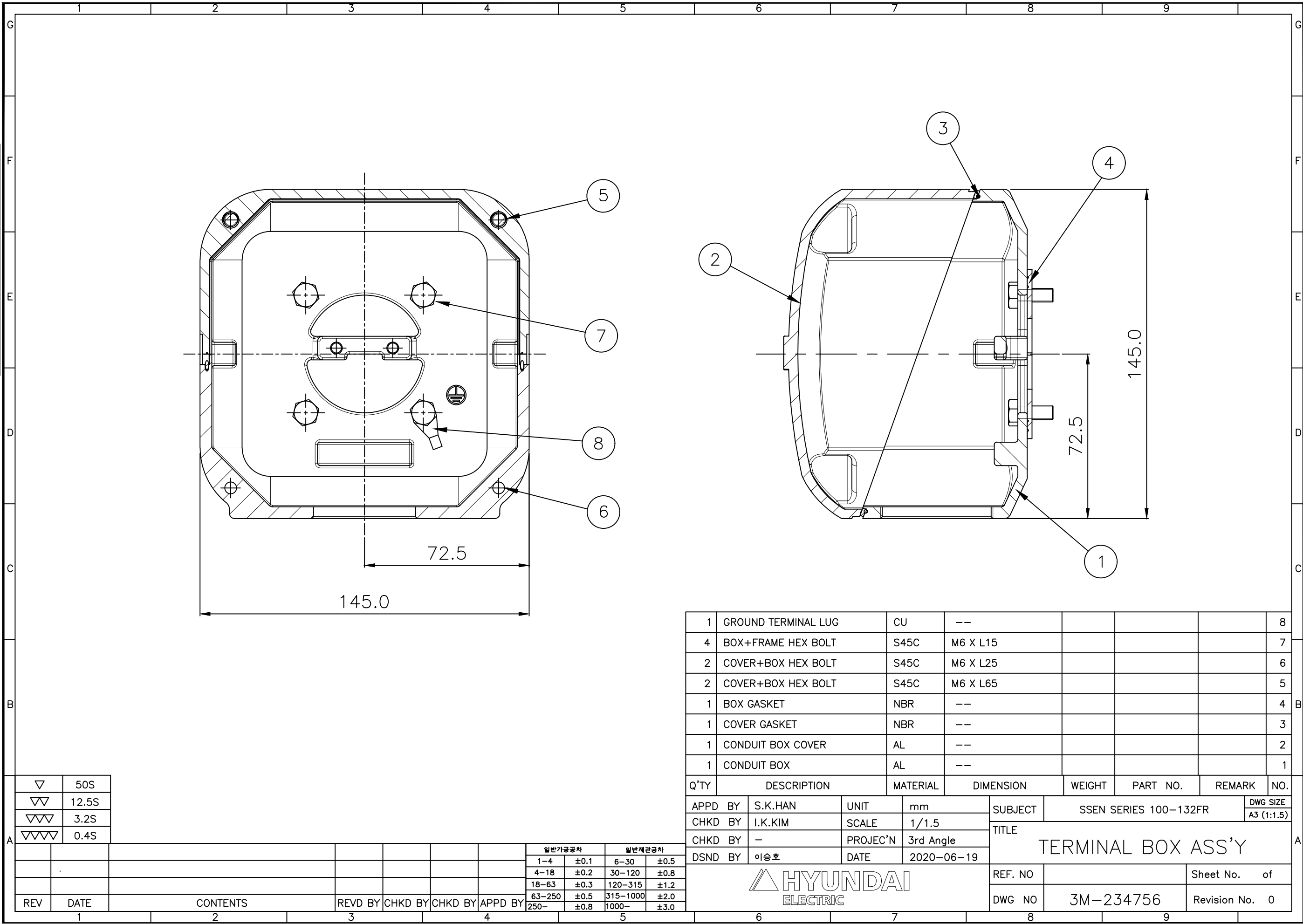


APPD BY	S.K.HAN	UNIT	mm	SUBJECT	KS, IEC Fr.112M	DWG SIZE	A4 (1/6)
CHKD BY	S.Y.KIM	SCALE	1/6	TITLE OUTLINE			
CHKD BY	I.K.KIM	PROJEC'N	3각법 (3rd Angle)				
DSND BY	S.H.LEE	DATE	2019.06.17				
				REF. NO		Sheet No.	of
				DWG NO	LM-I1113B3PLV01	Revision No.	0

THIS DRAWING IS PROPRIETARY TO HYUNDAI ELECTRIC. NO PART OF THIS DRAWING
MAYBE REPRODUCED WITHOUT THE PERMISSION OF HYUNDAI ELECTRIC.

본 도면은 현대일렉트릭(주) 재산이므로
허가없이 복사할 수 없음 (취급유의)


HYUNDAI
ELECTRIC



▽	50S
▽▽	12.5S
▽▽▽	3.2S
▽▽▽▽	0.4S

REV	DATE	CONTENTS	REVD BY	CHKD BY	CHKD BY	APPD BY
1						
2						
3						
4						

일반가공공차		일반재관공차	
1-4	±0.1	6-30	±0.5
4-18	±0.2	30-120	±0.8
18-63	±0.3	120-315	±1.2
63-250	±0.5	315-1000	±2.0
250-	±0.8	1000-	±3.0

1	GROUND TERMINAL LUG		CU	--				8
4	BOX+FRAME HEX BOLT		S45C	M6 X L15				7
2	COVER+BOX HEX BOLT		S45C	M6 X L25				6
2	COVER+BOX HEX BOLT		S45C	M6 X L65				5
1	BOX GASKET		NBR	--				4
1	COVER GASKET		NBR	--				3
1	CONDUIT BOX COVER		AL	--				2
1	CONDUIT BOX		AL	--				1
Q'TY	DESCRIPTION		MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK	NO.
APPD BY	S.K.HAN	UNIT	mm	SUBJECT	SSEN SERIES 100-132FR			DWG SIZE
CHKD BY	I.K.KIM	SCALE	1/1.5	TITLE TERMINAL BOX ASS'Y				A3 (1:1.5)
CHKD BY	—	PROJEC'N	3rd Angle					
DSND BY	이승호	DATE	2020-06-19					
				REF. NO			Sheet No.	of
				DWG NO	3M-234756		Revision No.	0
6		7		8		9		